

**ABSTRACT****A VESSEL HAVING  
TEMPERATURE MONITORING APPARATUS**

A vessel (2) comprising a body (4), a conduit (6) disposed near the body (4), a distributed temperature sensor system (12) for monitoring temperatures in the body (4) and comprising an optical fibre (14) positioned in the conduit (6), and the conduit and optical fibre (14) extending such that they provide a temperature profile of temperatures in at least a portion of the body (4).